

SOLAR WATER HEATING SYSTEM CASH-BACK REWARD PRE-APPROVAL APPLICATION



5,000 therms or less. Valid through December 31, 2007.

Initial Application Updated Application

STEPS TO APPLY FOR A CASH-BACK REWARD

1. Get a bid for equipment and installation from an installation contractor. If you have not already chosen an installation contractor, you can contact Focus on Energy at 800.762.7077 for assistance.
2. Make sure your installation contractor designs and prices the system according to the system requirements specified in this application.
3. Complete and mail this application, along with a copy of the bid from the installation contractor, equipment specifications and warranty information, to the address at the bottom of the page.
4. **Homeowners that have fully participated in the Wisconsin ENERGY STAR Home Program or Home Performance with ENERGY STAR Program are eligible to receive a \$500 bonus reward.**
5. **Do not purchase, order or install any equipment until you have been notified that your application has been approved!**
6. Within 30 days of receiving a complete application, we will notify you if your application has been approved. You will also receive a Notice of Installation that you will need to complete and send in after your system has been installed.
7. Install the system (you have **one year** to install the system and submit the Notice of Installation).
8. To receive the Cash-Back Reward payment, send the Notice of Installation to: **Focus on Energy, ATTN: Renewable Energy Cash-Back Rewards, 431 Charmany Drive, Madison, WI 53719.**

Questions regarding this application should be directed to Focus on Energy at 800.762.7077 or renewableapplications@focusonenergy.com.

APPLICANT INFORMATION – Complete all appropriate fields. Please print.

Contact Name or Name of Residential Owner				
Company/Organization			Federal I.D. NO. (FEIN)	
<input type="checkbox"/> Individual/Sole proprietor <input type="checkbox"/> Corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Other:				
For Homeowners: <input type="checkbox"/> Home is/will be certified Wisconsin ENERGY STAR Home <input type="checkbox"/> Home has/will complete Home Performance with ENERGY STAR in-home evaluation and post performance inspection <input type="checkbox"/> Home is NOT participating in the Wisconsin ENERGY STAR Home or Home Performance with ENERGY STAR Programs				
Mailing Address	City	State	ZIP	County
Owner/Contact Phone Home () – Work () –	Owner/Contact Fax () –		Owner/Contact Email	
Installation address (no PO. Boxes)	City	State	ZIP	County
This system will be used in a: <input type="checkbox"/> Business <input type="checkbox"/> Single Family Home (1-3 units) <input type="checkbox"/> Apt/Condo Building (4+ units)		Business Type: <input type="checkbox"/> Hotel <input type="checkbox"/> Healthcare <input type="checkbox"/> Car Wash <input type="checkbox"/> Other _____ # of units: _____ Rate of occupancy (%): _____		
Is this a new home/building? <input type="checkbox"/> Yes <input type="checkbox"/> No		Electric utility at installation address		
Water heating fuel supplier at installation address		Space heating fuel supplier at installation address		
Current space heating fuel type: <input type="checkbox"/> Natural gas <input type="checkbox"/> Propane (LP) <input type="checkbox"/> Oil <input type="checkbox"/> Electric <input type="checkbox"/> Other:				
Current water heating fuel type: <input type="checkbox"/> Natural gas <input type="checkbox"/> Propane (LP) <input type="checkbox"/> Oil <input type="checkbox"/> Electric <input type="checkbox"/> Other:				

INSTALLATION CONTRACTOR INFORMATION

Company installing the system		Contact		
Mailing Address		City	State	ZIP
Company's Phone () –	Company's Fax () –		Email	

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EQUIPMENT INFORMATION – All fields are required

COST OF RENEWABLE ENERGY SYSTEM – Attach Bid

Estimated Installation Date (required) ____ / ____ / ____	Estimated Installed Price
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DESIGN DETAILS – Attach Calculations

Collector Type <input type="checkbox"/> Flat Plate <input type="checkbox"/> Evacuated Tube	Manufacturer	Model Number
Size of Collector Array (total square feet for flat plate collectors, total linear feet for evacuated tube collectors)		
Collector Compass Direction (in degrees from due South)		Collector Tilt Angle (in degrees from horizontal)
Storage Tank Volume	Gallons per day hot water use	<input type="checkbox"/> Roof Mount <input type="checkbox"/> Ground Mount
Estimate of thermal energy produced (therms per year). Attach calculations.		

CASH-BACK REWARD

Complete this section when installing a new system.

Estimated Thermal Energy Produced x Multiply by reward factor = Estimated reward
 _____ x \$ _____ per therm = \$ _____

Complete this section when repairing or upgrading an existing system.

Total cost of repair x Multiply by reward factor = Estimated reward
 \$ _____ x 0.50 = \$ _____

TO BE COMPLETED BY FOCUS ON ENERGY STAFF ONLY – Project Information

Project Number	Application Received By	Date Received
Energy Production Estimated (show units)	Cash-Back Reward Estimate	
Cash-Back Reward Approved <input type="checkbox"/> Yes <input type="checkbox"/> No	Cash-Back Reward Approved By	Date Approved
Customer Notified Via <input type="checkbox"/> Mail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> Email <input type="checkbox"/> Other	Customer Notified By	Date Customer Notified

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INSTRUCTIONS

All of the required information requested on the Cash-Back Reward application must be completed.

- **Estimated installation date:** Enter the date you anticipate the system will be installed.
- **Estimated installed price:** Enter the anticipated total cost of the system, including all equipment and labor.
- **Collector compass direction (in degrees):** Enter the number of degrees the collector face is from due south.
- **Tilt angle (in degrees):** Enter the number of degrees the collector surface is from horizontal.
- **Estimate of thermal energy produced (in therms per year):** Focus on Energy uses RETScreen software (available online). Divided by 0.8, to estimate the natural gas savings your system will provide annually. The information you provide in this application will be used to calculate your reward.
- **Cash-Back Reward estimate:** Use the following table to determine the "Reward Factor" for your system. Then multiply the estimate of thermal energy produced by the Reward Factor to estimate the size of your Cash-Back Reward. As a homeowner, you may add a \$500 energy efficiency bonus to the reward total if you have a certified Wisconsin ENERGY STAR Home or if you have received a Home Performance with ENERGY STAR Assessment and verification on energy efficient upgrades to your home. Focus on Energy will check your estimate, which may change the amount of your Cash-Back Reward.

THERMAL ENERGY PRODUCED BY SYSTEM

Residential Energy Efficiency Bonus
Up to 250 therms per year
Up to 1,000 therms per year
Up to 5,000 therms per year
Non-profit 501(c)3 or Government

REWARD FACTOR (\$ PER THERM)

Add \$500.00 to total
\$17.00 per therm, up to \$2,500 or 25%
\$10.00 per therm, up to \$50,000 or 25%
\$8.00 per therm, up to \$50,000 or 25%
Add \$3.00 per therm, up to \$50,000 or 35%

SYSTEM REQUIREMENTS

- **Professional Installation:** System must be installed by a contractor on the Focus on Energy Full Service Solar Water Heating System Installers list (see focusonenergy.com).
- **Wisconsin Building Code:** System owners must adhere to building permit requirements by their local jurisdiction. Where applicable, the system must have an approved building permit and be inspected upon completion. All systems installed must meet the requirements spelled out by the Wisconsin Department of Commerce for plumbing systems and solar energy systems, as well as conform to any local requirements. "System Requirements" listed in this document are either above code requirements or are listed for clarification purposes. If state code requirements are more stringent than the Focus on Energy Program requirements, then the state code shall take precedence.
- **Site Assessment:** We strongly encourage you to arrange for an expert to visit your home and perform a site assessment, which will help you determine if a renewable energy system will work at your location. Contact Focus on Energy at 800.762.7077 for information about renewable energy site assessments.
- **Collectors:** Collectors must be rated by the Solar Rating and Certification Corporation (SRCC) or an equivalent agency. Collectors must have a five-year warranty. Flat plate collectors must have a tempered glass glazing.
- **Fuels Saved/Displaced:** The renewable energy system must be saving or displacing natural gas or electricity. Systems saving or displacing other fuels such as coal, LP gas (e.g., propane) or oil are not eligible.
- **System:** Must be a pressurized antifreeze system or a drainback system utilizing antifreeze. The primary function of the system is to provide service hot water.
- **Siting:** Collectors must be mounted to face between 30 degrees east or west of true south. Collectors must be located so that there is no shading of the collectors between 10AM and 2PM during any part of the year to receive the full reward. If shading occurs, attach a Solar Pathfinder reading to verify your thermal production calculation. Collectors on a pressurized system must be mounted at an angle between 20 and 60 degrees from horizontal. Collectors on a drainback system must be mounted at an angle between 40 and 60 degrees from horizontal.
- **Plumbing:**
 - **Pressurized Systems:** All piping between the collectors and the heat exchanger must be copper and insulated with insulation rated to withstand over 250 degrees and jacketing capable of withstanding moisture, ultraviolet radiation and environmental exposure. The balance of system piping may be either copper or cross-linked polyethylene (Pex) (rated to at least 200 degrees F at 100 pounds per square inch) and insulated with insulation rated to withstand 200 degrees F and capable of withstanding moisture, ultraviolet radiation and environmental exposure. All piping must be supported every six feet for copper pipe and every three feet for Pex pipe. A back check valve must be installed between the boiler drains. All fittings, valves and gauges must be copper or brass.
 - **Drainback Systems:** All piping in the solar loop must be copper with copper or brass fittings. All piping must be insulated with insulation rated to withstand at least 200 degrees F, moisture, ultraviolet radiation and environmental exposure. All drainback piping to and from collectors must have at least a 3/4 inch inside diameter and be mounted with at least a 15 degree slope. All piping must be supported every four feet.
- **Collector Mounting:** Collectors must be securely fastened to their mounting structure (roof or rack). If a tilt rack raises the top of the collectors above the roof, the mounting hardware must be bolted to reinforced framing members in the roof or rafter where the bolt has a minimum of three inches grab (if reinforced framing is less than three inches, bolts must have nut and washer). If it is not possible to reinforce the roofing system, a rail may be added to the top of the roof, the rail lag bolted to the roof rafters and the collectors bolted to the rail.
- **Balance of System:** For all pressurized systems, the closed loop must be pressurized to at least 25 pounds per square inch (at 60 degrees F) and be fitted with the following components: pressure relief valve, expansion tank and pressure gauge. For pressurized systems: the solar fluid must be propylene glycol and provide burst protection to at least -60 degrees F (-28 degrees F "no slush" condition). For drainback systems: the solar fluid must be propylene glycol and provide burst protection to at least -20 degrees F (9 degrees F "no slush" condition). For all systems: a temperature gauge must be installed at the outlet of the storage tank on the feed to the backup water heater. There must be a back-up system for heating water. Product literature, system description and maintenance instructions must be provided to the customer. The domestic hot water piping downstream of the backup water heater must be fitted with a tempering valve to limit the maximum temperature of the hot water to a set point of 120 degrees F (adjustable).

System Requirements continued on page 4.

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SYSTEM REQUIREMENTS cont.

- **Performance Testing:** Focus on Energy reserves the right to test a number of systems. The system must be tested between 10AM and 2 PM on a mostly sunny day to verify that the system is in service.
 - **Performance Testing Procedure:** A certain number of systems will be chosen by Focus of Energy for inspection. This performance testing will be provided at no cost to the customer. Performance testing will consist of checking those items set out in the system requirements. If the system does not pass, the customer and installer will be notified immediately of the deficiencies and given 30 days to correct deficiencies (and still be eligible for the Cash-Back Reward). The second performance test will be at the installation contractor's expense. Eligibility for the reward after 30 days will be at the discretion of Focus on Energy.
- **Two-Year Installation Warranty:** The system must include at least a two-year installation warranty that covers any defect in the workmanship of the installation at no charge to the owner.
- **One-Year Equipment Warranty:** All major system components must have at least a one-year warranty.
- **Usage:** Systems must be designed to provide hot water to a facility. Space heating usage is permitted if connected to a water heating process.

TERMS AND CONDITIONS

1. **Eligibility.** Businesses, organizations, institutions, and state, county, local or tribal governments and residents are eligible if their renewable energy system will displace natural gas or electricity that the applicant purchases from a participating Wisconsin utility.
2. **Location of System.** The renewable energy system must be installed on the property of an eligible customer, and the property must be located in the service territory of a participating electric or natural gas provider.
3. **Approval.** An application for a Cash-Back Reward must be approved by Focus on Energy before any equipment is ordered, purchased or installed. Within 30 days after we receive a complete application, we will send you a letter notifying you if your application has been approved.
4. **Amount of the Cash-Back Reward.** The Cash-Back Reward will not exceed 25 percent of project costs or \$2,500 for systems saving under 250 therms annually and \$50,000 for systems saving over 250 therms annually. Non-Profit Government facilities are eligible for up to 35% of the project costs.
5. **System Requirements.** The renewable energy system must be designed and installed to meet the "System Requirements" described in this application. The renewable energy system must comply with all applicable federal, state and local codes governing the installation and operation of renewable energy systems.
6. **Repairs Are Eligible.** The repair of non-functioning solar water heating systems is eligible. Cash-Back Reward applications for repairs must include a detailed cost quote breaking out the repair needs. The solar thermal system must have a two year installation warranty and a one year equipment warranty. Solar thermal systems that malfunctioned due to a lack of maintenance or were previously supported by Focus on Energy are not eligible.
7. **One-Year Project Deadline.** The renewable energy system must be installed and the Notice of Installation submitted within one year. Projects that take more than six months to complete must submit a progress report after six months noting substantial progress toward installation, such as copies of receipts for equipment or a signed installation contract. If after six months there has been no substantial progress toward project completion, Focus on Energy reserves the right to terminate the reward.
8. **Notice of Installation.** The Cash-Back Reward will be paid after the system has been installed and you have submitted a Notice of Installation. The Cash-Back Reward will be paid within 60 days of receipt and acceptance of the Notice of Installation. The Notice of Installation must include:
 - a. Copies of all bills from the installation contractor (or subcontractors, if any)
 - b. Copy of the approved and inspected building permit, if applicable
 - c. Copies of warranties for equipment, major system components and system installation
 - d. Photographs of system (electronic copies appreciated)
9. **Additional Terms.** Focus on Energy reserves the right to:
 - a. Withhold payment until any identified problems with the renewable energy system are resolved
 - b. Terminate this reward in whole or in part due to the recipient's failure to fulfill the terms and conditions in this document, or due to non-appropriation of necessary funds, or if Wisconsin Energy Conservation Corporation's contract to act as administrator for Focus on Energy is terminated
 - c. Alter or discontinue the Cash-Back Reward program offer at any time without notice
 - d. Make the final determination on whether items meet the standards set forth in the program
 - e. Inspect the system to ensure that it is consistent with program guidelines
 - f. Monitor or evaluate the performance of the system for a period of two (2) years
10. **Privacy.** Your name and reward information may be used in various communications to the media. A representative of Focus on Energy will contact you before we use your name in any media communications.
11. **Disclaimer.** Acceptance of this Cash-Back Reward does not constitute the approval, acceptance, warranty, guarantee or endorsement of Focus on Energy or Wisconsin Energy Conservation Corporation.

Please Note: This completed form must be submitted and approved by Focus on Energy before any equipment is ordered, purchased or installed.

SIGNATURE

I certify that I have performed or reviewed this analysis and any accompanying documentation, and the information is reasonable and accurate. I further certify the unit(s) is to be installed at the address indicated above. I have read the terms and conditions associated with this program. I am providing the requested information solely to be eligible to participate in this program and request that the personal information supplied by me be treated as confidential to the maximum extent possible.

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Signature

Date

Periodically, Focus on Energy evaluates program energy savings by monitoring energy use prior to and after home improvements. Your signature provides Focus on Energy approval to obtain energy consumption data directly from your utility company. If you prefer not to grant Focus on Energy access to your energy consumption records, please check the "Opt Out" box. **Opt Out**

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